

## Pahwa Wind Energy Power Project

### Project Summary

**Subsector**

Power Generation

**Location**

Herat

**Project Cost**

\$4.0 Million

**Project Type**

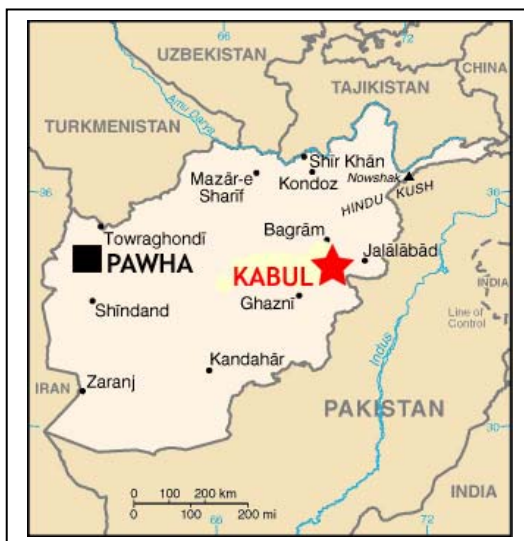
Wind Energy Project

**Project Executing Firm/Agency**

Shams Agricultural Products, Inc.

**Funding Agency**

Not Identified



## Project Outline

Twenty-five kilometers west of Herat, Shams Agricultural Products (SAP) Ltd. owns a 2,500-acre farm. This farm, called Pahwa, is surrounded by four other farms of similar sizes, which are owned by numerous small farmers. In the center of the farm, on 500 acres, there is a vineyard and orchard. The remainder of the land is used to grow various seasonal crops. Over the past 23 years the land has not received the attention required for proper management, therefore much work is necessary to return it to its previous state of productivity.

Shams Agricultural Products is moving forward with preparatory arrangements for Poultry and Dairy Production at the farm. In order for the production to be self-sustaining, it requires an energy source for electricity. The establishment of wind energy turbines is the best solution. The turbines will be expected to produce enough electricity for the farm production projects as well as supply electricity for the needs of 80 families living in the village.

## Technical Description

The project involves the erection of a wind turbine to generate low-cost energy for the farm at Pahwa. No other technical information is available at this stage.

## Project Site

The project is located in Pahwa, a farm located about 25 kilometers west of Herat. Pahwa is connected to Herat by an un-paved road, which is partly public and partly owned by Shams Agricultural Products Ltd.

## Project Status/Timeline

The project is expected to begin in the summer of 2003.

## Equipment and Services

Equipment required for this wind energy project are:

- |                     |                                  |
|---------------------|----------------------------------|
| • Wind turbine      | • Over current protection device |
| • Anemometer        | • Batteries                      |
| • Pole/tower        | • AC sub panel                   |
| • Foundation        | • DC panel                       |
| • Transfer switch   | • Grounding                      |
| • Charge controller | • Interconnection                |
| • Inverter          | • Installation                   |

## U.S. Competitiveness

U.S. companies in the renewable energy sector are highly competitive in this industry.

## Project Financing

The required land as well as needed capital to cover the local currency investment and expenses will be provided by SAP Ltd. The cost of equipment to be imported will be covered by a grant or a soft credit being made available in the framework of the

reconstruction aid to Afghanistan. SAP Ltd. is also open for any sound joint venture proposal.

## Conclusion

This project entails a renewable energy source and should be very interesting to U.S. companies not only from an environmental standpoint but also for rural development.

## Key Decision Makers

<b>Organization or Company Name</b>	Shams Agricultural Products Ltd.(SAP Ltd.)
<b>Contact Person</b>	Dr. M. Jalil Shams
<b>Title</b>	President
<b>Address</b>	Bärenweidstrasse 5, CH-8833 Samstagern, Schweiz
<b>Telephone</b>	+411-786- 4993/94
<b>Fax</b>	+411-786-4994
<b>E-mail</b>	jpshams@bluemail.ch